



# STIC Search Report

## EIC 2100

STIC Database Tracking Number: 207835

TO: Cheryl Lewis  
Location: RND 3B07  
Art Unit: 2167  
Monday, November 20, 2006

Case Serial Number: 10/661412

From: Carol Wong  
Location: EIC 2100  
RND-4B28  
Phone: 571-272-3513

Carol.Wong@uspto.gov

### Search Notes

Dear Ex. Lewis:

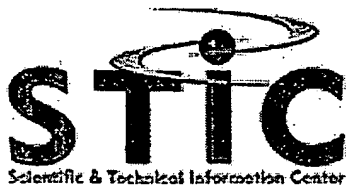
Attached are the search results for your case.

Color tags mark the patents/articles which appear to be most relevant to the case. Color of tag has no significance. Pls review all documents, since untagged items might also be of interest.

Pls call if you have any questions or suggestions for additional terminology, or a different approach to searching the case.

Thanks, Carol





207835

# STIC EIC 2100 Search Request Form

Today's Date:

November 20, 2006

What date would you like to use to limit the search?

Priority Date: 2/6/2001

Other:

Name Cheryl Lewis

AU 2167 Examiner # 72314

Room # 3607 Phone 24113

Serial # 10/661,412

Format for Search Results (Circle One):

☒ PAPER

☐ DISK

☐ EMAIL

Where have you searched so far?

☒ USP

☐ DWPI

☒ EPO

☒ JPO

☐ ACM

☐ IBM TDB

☐ IEEE

☐ INSPEC

☐ SPI

☐ Other

Is this a "Fast & Focused" Search Request? (Circle One) ☒ YES ☐ NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Is this request for a BOARD of APPEALS case? (Circle One) YES ☒ NO

Is this case a SPECIAL CASE?

(Circle One) YES ☒ NO

A database that receives multiple request via a client application to access a data file.

Each request is associated with a timestamp.

Each request is forwarded to the DBMS to access the data file.

The memory stores replicated data that indicates changes to data in the data file based on the request. The replicated data has a timestamp. Purging and redundant redundant requests.

Forwarding the purged data or replicated data to a second DBMS to prevent client application failure

STIC Searcher C. W. W.

Phone 2-3573

Date picked up 11-20

Date Completed 11-20-06



File 347:JAPIO Dec 1976-2006/Jul(Updated 061116)

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File 350:Derwent WPIX 1963-2006/UD=200674

(c) 2006 The Thomson Corporation

Set	Items	Description
S1	1115	TIMESTAMP? OR CLOCKSTAMP? OR TIMEMARK? OR TIMECODE? OR TIM-ETAG?
S2	4816	(TIME OR TEMPORAL OR CLOCK)()STAMP???
S3	4756	(TIME OR TEMPORAL)()(MARK? ? OR MARKER? OR MARKED OR MARKING OR CODE? ? OR CODING OR TAG??? OR TAGG??? OR FLAG??? OR FLAGG???)
S4	7550	(TIME OR TEMPORAL)()(REFERENCE? ? OR LABEL??? OR LABELL??? OR ID OR IDS OR IDENTIFIER? ? OR INDICANT? OR INDICAT??? OR DESIGNAT???)
S5	1013	S1:S4(5N)(COMPAR??? OR COMPARISON? OR COMPARAT???? OR MATCH? OR MISMATCH? OR INTERSECT? OR COINCID? OR CO()INCID? OR NONCOINCID?)
S6	116	S1:S4(5N)(JUDG???? OR JUDGE???? OR CONVERG? OR NON()CORRESPOND? OR NONCORRESPOND? OR CONTRAST? OR AGREE? OR DISAGREE?)
S7	139	S1:S4(5N)(ACCORD?NCE? OR DISCORD? OR ACCORD)
S8	797	S1:S4(3N)(CHECK??? OR EVALUAT? OR SCRUTIN? OR DETERMIN? OR CHEQU? OR DISCRIMINAT? OR VERIFY? OR VERIFIC? OR VERIFIE? ? OR DET? ?)
S9	330	S1:S4(3N)(ANALYS? OR ANALYZ? OR ANALYT? OR ASSESS? OR SELF-CHECK? OR EXAMIN? OR CONFIRM? OR DIFFERENTIAT? OR REVIEW? OR IDENTIFY?)
S10	545	S1:S4(3N)(IDENTIFIE? OR IDENTIFIC? OR APPRAIS? OR ASCERTAIN? OR INSPECT???? OR MONITOR?)
S11	858460	REQUEST? OR QUERY? OR QUERIE? OR INQUIR? OR ENQUIR? OR INTERROG? OR REQUISITION? OR RETRIEV? OR IR OR ACCESS?? OR ACCESSING
S12	43256	FETCH???
S13	145929	DATAFILE? OR DATABASE? OR DATABANK? OR DATASET? OR DATASTORE? OR DATASYSTEM? OR DATACOLLECTION? OR DATALIBRAR? OR DATAREPOSIT?
S14	58	DATADEPOSIT? OR DATAWAREHOUS? OR DATAMART? OR AUDIODATA OR VIDEODATA OR IMAGEDATA OR TEXTDATA
S15	159	COMPUTERFILE? OR IMAGEFILE? OR SOUNDFILE? OR MEDIAFILE? OR AUDIOFILE? OR FILEGROUP? OR FILESYSTEM? OR VIDEOFILE? OR MUSICFILE?
S16	140067	S11:S12(3N)(DATA OR S13:S15)
S17	60716	(COPY? ? OR COPIES OR DUPLICAT? OR REPLICA? OR REPRODUC? OR VERSION? OR CLON???) (3N)(DATA OR S13:S15)
S18	37166	REDUNDAN? OR SUPEREROGAT?
S19	65	S5:S10(25N)S16
S20	6	S19(25N)S17
S21	4	S20 AND AC=US/PR AND AY=(1963:2001)/PR
S22	4	S20 AND AC=US AND AY=1963:2001
S23	4	S20 AND AC=US AND AY=(1963:2001)/PR
S24	1	S20 AND PY=1963:2001
S25	4	S21:S24
S26	174542	S11:S12(5N)(DATA OR S13:S15)
S27	83	S5:S10(25N)S26
S28	8	S27(25N)S17
S29	2	S28 NOT S20
S30	119	S5:S10(5N)S11:S12
S31	7	S30(50N)S17
S32	1	S31 NOT (S20 OR S28)
S33	56070	(CHANG??? OR ANNOTAT? OR VERSION? OR ALTERR? OR ALTERATION? OR ALTER??? OR MODIFIC? OR MODIFY? OR MODIFIE?) (3N)(DATA OR S13:S15)
S34	104009	(EDIT??? OR UPDAT???? OR UP()DAT???? OR REVIS???? OR CORRECT? OR AMEND? OR EMEND? OR RECTIF? OR TEXTEDIT?) (3N)(DATA OR S13:S15)

S35 260 (VIDEOEDIT? OR REDACT? OR RECONCIL?)(3N)(DATA OR S13:S15)  
 S36 146 S5:S10(7N)S11:S12  
 S37 183 S5:S10(7N)S33:S36  
 S38 146 S36(50N)S37  
 S39 36 S36:S37(50N)S16  
 S40 15 S39 AND AC=US/PR AND AY=(1963:2001)/PR  
 S41 19 S39 AND AC=US AND AY=1963:2001  
 S42 19 S39 AND AC=US AND AY=(1963:2001)/PR  
 S43 12 S39 AND PY=1963:2001  
 S44 17 S40:S43 NOT (S20 OR S28 OR S31)  
 S45 24 S25 OR S29 OR S32 OR S44

45/69,K/3 (Item 3 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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0014413002 - Drawing available

WPI ACC NO: 2004-602984/

Related WPI Acc No: 2003-634746; 2004-634215

XRPX Acc No: N2004-476944

Database cluster provision method in data processing system, involves comparing timestamp of request and replication data, based on which one of request /the data is purged and other is forwarded to secondary database management system

Patent Assignee: ARONOFF E (ARON-I); KALDERON E (KALD-I); ROMINE W J (ROMI-I)

Inventor: ARONOFF E; KALDERON E; ROMINE W J

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20040148397	A1	20040729	US 2001266908	P	20010206	200458 B
			US 200272317	A	20020206	
			US 2003661412	A	20030911	

Priority Applications (no., kind, date): US 200272317 A 20020206; US 2001266908 P 20010206; US 2003661412 A 20030911

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20040148397	A1	EN	25	12	Related to Provisional US 2001266908 C-I-P of application US 200272317

#### Alerting Abstract US A1

NOVELTY - Each data request for accessing data of a data file, from client application, is forwarded to a primary database management system (DBMS), along with associated timestamp. Replication data indicating changes in data file, is acquired along with timestamp. The timestamp of replication data and requests are compared, based on which one of request and replication data are purged, and other is forwarded to secondary DBMS.

DESCRIPTION - An INDEPENDENT CLAIM is also included for method of performing replication in database cluster having client connection failover.

USE - For providing highly-available database clusters in data processing system.

ADVANTAGE - Provides database cluster that maintain connection with potentially geographically remote client application, even in the event of failure or unavailability of primary DBMS.

DESCRIPTION OF DRAWINGS - DESCRIPTION OF DRAWING - The figure shows the block diagram of the data processing system comprising database clusters.

Title Terms/Index Terms/Additional words: DATABASE; CLUSTER; PROVISION; METHOD; DATA; PROCESS; SYSTEM; COMPARE; REQUEST; REPLICA; BASED; ONE; PURGE; FORWARDING; SECONDARY; MANAGEMENT

#### Class Codes

International Classification (Main): G06F-015/16

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-F05E; T01-J05B4A; T01-J05B4M

Database cluster provision method in data processing system, involves comparing timestamp of request and replication data, based on which one of request/the data is purged and other is forwarded to secondary database management system

Original Publication Data by Authority

Claims:

...and each associated timestamp to a memory; forwarding replication data to the memory, wherein the replication data is sufficient to indicate any changes made to the data of the first data file based on the one or more data requests and wherein each replication data includes a timestamp; comparing the timestamps of one or more of the replication data to the timestamps of one or more of the data requests; when the one or more of the data requests are determined to be redundant to the one or more of the replication data based on the timestamps, purging one of (a) one or more of the data requests...

45/69,K/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0014290548 - Drawing available

WPI ACC NO: 2004-477200/

XRPX ACC No: N2004-375936

Recent set of replica provision method for cluster data resource, involves determining recent replica among nodes with respect to time stamps of data resource open request and node, associated with data resource identifier

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: CHAO C; HOUGH R E; SHAHEEN A A

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 6748381	B1	20040608	US 1999282908	A	19990331	200445 B

Priority Applications (no., kind, date): US 1999282908 A 19990331

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6748381	B1	EN	12	5	

Alerting Abstract US B1

NOVELTY - A data resource open request having data resource identifier and time stamp is broadcasted to the nodes. The recent replica of the cluster data resource among the nodes is determined by relating the time stamp of the request with the time stamp of the node, which is associated with the data resource identifier. The determined recent replica is broadcasted to each node.

DESCRIPTION - An INDEPENDENT CLAIM is also included for apparatus for providing recent set of replicas for cluster data resource.

USE - For providing recent set of replicas for cluster data resource in distributed computing environment used for e-commerce and other mission critical applications.

ADVANTAGE - Provides high availability to cluster.

DESCRIPTION OF DRAWINGS - The figure shows the flow chart execution of database conflict resolution protocol (DCRP) in nodes of cluster.

Title Terms/Index Terms/Additional words: RECENT; SET; REPLICA; PROVISION; METHOD; CLUSTER; DATA; RESOURCE; DETERMINE; NODE; RESPECT; TIME; STAMP;

OPEN; REQUEST; ASSOCIATE; IDENTIFY

#### Class Codes

International Classification (Main): G06F-017/30

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05B4M; T01-N01A2A

...NOVELTY - A data resource open request having data resource identifier and time stamp is broadcasted to the nodes. The recent replica of the cluster data resource among the nodes is determined by relating the time stamp of the request with the time stamp of the node, which is associated with the...

#### Original Publication Data by Authority

#### Original Abstracts:

...interacts with the group services clients such that the DCRP broadcasts to the nodes a data resource modification request having a data resource identifier and a timestamp. The DCRP determines a recent replica of the cluster data resource among the nodes with respect to the timestamp of the broadcast data resource modification request relative to a local timestamp associated with the data resource identifier, and distributes the recent replica of the cluster data resource to each node of the plurality of nodes.

#### Claims:

...the cluster, the method comprising the steps of: broadcasting to the plurality of nodes a data resource open request having a data resource identifier and a timestamp; determining a recent replica of the cluster data resource among the plurality of nodes with respect to the timestamp of the broadcast data resource open request relative to a local timestamp of a node of the plurality of nodes associated with the data resource identifier; and distributing the recent replica of the cluster data resource to each node of the plurality of nodes.

45/69,K/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0013551459 - Drawing available

WPI ACC NO: 2003-645388/200361

Related WPI Acc No: 2002-062444; 2003-039756

XRPX Acc No: N2003-513470

Traffic management system for filtering data traffic in Internet, compares number of packets and accumulated bytes per Internet protocol address with preset threshold values for detecting violation

Patent Assignee: DARK S P (DARK-I); DEEP NINES INC (DEEP-N); SHARP C F (SHAR-I)

Inventor: DARK S P; SHARP C F

Patent Family (6 patents, 101 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 20030110394	A1	20030612	US 2000572112	A	20000517	200361	B
			US 2001875319	A	20010606		
			US 200278386	A	20020220		
WO 2003073724	A2	20030904	WO 2003US3623	A	20030207	200368	E
AU 2003212950	A1	20030909	AU 2003212950	A	20030207	200428	E
EP 1483874	A2	20041208	EP 2003708993	A	20030207	200480	E
			WO 2003US3623	A	20030207		
JP 2005518764	W	20050623	JP 2003572270	A	20030207	200542	E
			WO 2003US3623	A	20030207		
AU 2003212950	A8	20051020	AU 2003212950	A	20030207	200615	E

Priority Applications (no., kind, date): US 2001875319 A 20010606; US 2000572112 A 20000517; US 200278386 A 20020220

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030110394	A1	EN	16	11	C-I-P of application US 2000572112 C-I-P of application US 2001875319
WO 2003073724	A2	EN			
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW					
Regional Designated States,Original: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW					
AU 2003212950	A1	EN			Based on OPI patent WO 2003073724
EP 1483874	A2	EN			PCT Application WO 2003US3623 Based on OPI patent WO 2003073724
Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
JP 2005518764	W	JA	28		PCT Application WO 2003US3623 Based on OPI patent WO 2003073724
AU 2003212950	A8	EN			Based on OPI patent WO 2003073724

#### Alerting Abstract US A1

NOVELTY - A processor (302) extracts Internet protocol (IP) address and number of bytes of a packet and stores extracted data in database (19). A comparator (304) compares the number of packets and accumulated bytes per IP address with packet number threshold and preset packet rate, respectively. Based on comparison result, data packets corresponding to violated level is prevented from transmission.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.data network monitoring system;
- 2.traffic management system controlling method; and
- 3.data flow control system.

USE - For monitoring and filtering data traffic in Internet.

ADVANTAGE - Spoofing is detected and prevented efficiently by detecting active state of IP address by comparing extracted IP address and bytes of packet with set threshold values.

DESCRIPTION OF DRAWINGS - The figure shows a flow diagram of the system operation of the traffic management system.

19 database  
302 routine  
304 comparator

Title Terms/Index Terms/Additional words: TRAFFIC; MANAGEMENT; SYSTEM; FILTER; DATA; COMPARE; NUMBER; PACKET; ACCUMULATE; BYTE; PER; PROTOCOL; ADDRESS; PRESET; THRESHOLD; VALUE; DETECT; VIOLATION

#### Class Codes

International Classification (Main): G06F-011/30, H04L-012/66, H04L-029/06  
(Additional/Secondary): H04L-012/56

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): T01-G05C; T01-J05B4P; T01-N01D; T01-N02B2; W01-A03B  
; W01-A06A; W01-A06E

200361

## Original Publication Data by Authority

### Original Abstracts:

...IP address data and the physical address data. The extracted data is then used to access different data bases to determine if matches occur. Time stamps, sequencing and other parameters of each piece of data entering a system are used to control data access .

...

...IP address data and the physical address data. The extracted data is then used to access different data bases to determine if matches occur. Time stamps, sequencing and other parameters of each piece of data entering a system are used to control data access .

...

...IP address data and the physical address data. The extracted data is then used to access different data bases to determine if matches occur. Time stamps , sequencing and other parameters of each piece of data entering a system are used to control data access .  
? t45/69,k/14,19,21,24

45/69,K/14 (Item 14 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0010370592 - Drawing available

WPI ACC NO: 2000-686713/

XRPX ACC No: N2000-507764

Requests processing system in client-server computer network, has state indicator to indicate the time when actionable state is reached for each deferrable request such that it is requalified as actionable request

Patent Assignee: UNIPOWER SOLUTIONS EURO LTD (UNIP-N); UNIPOWER SYSTEM LTD (UNIP-N)

Inventor: HOUBART H

Patent Family (6 patents, 88 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 2000048100	A2	20000817	WO 2000GB487	A	20000214	200067	B
AU 200024549	A	20000829	AU 200024549	A	20000214	200067	E
GB 2349052	A	20001018	GB 19993314	A	19990212	200067	E
EP 1159696	A2	20011205	EP 2000902812	A	20000214	200203	E
			WO 2000GB487	A	20000214		
EP 1159696	B1	20021113	EP 2000902812	A	20000214	200282	E
			WO 2000GB487	A	20000214		
DE 60000781	E	20021219	DE 60000781	A	20000214	200307	E
			EP 2000902812	A	20000214		
			WO 2000GB487	A	20000214		

Priority Applications (no., kind, date): GB 19993314 A 19990212

### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
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WO 2000048100	A2	EN	60	11	
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National Designated States,Original: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200024549	A	EN			Based on OPI patent WO 2000048100
EP 1159696	A2	EN			PCT Application WO 2000GB487

Based on OPI patent WO 2000048100



Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR  
IE IT LI LT LU LV MC MK NL PT RO SE SI  
EP 1159696 B1 EN PCT Application WO 2000GB487  
Based on OPI patent WO 2000048100

Regional Designated States,Original: DE GB IT  
DE 60000781 E DE Application EP 2000902812  
PCT Application WO 2000GB487  
Based on OPI patent EP 1159696  
Based on OPI patent WO 2000048100

#### Alerting Abstract WO A2

NOVELTY - A request qualifier qualifies each received request as either actionable or deferrable request. A state indicator indicates time when actionable state is reached for each deferrable request so that deferrable request is requalified as actionable request. A response indicator indicates server that each such actionable request should be actioned and response should be provided for each actionable request.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.requests processing method;
- 2.client-server computer network;
- 3.computer program product

USE - For processing requests in request response client-server computer network e.g. internet to perform transactions.

ADVANTAGE - Completes transaction in a secure and provable manner and treats all users fairly, hence provides up to date confirmation delivery without changing existing protocols.

DESCRIPTION OF DRAWINGS - The figure shows the detailed functional diagram of requests processing system.

Title Terms/Index Terms/Additional Words: REQUEST; PROCESS; SYSTEM; CLIENT; SERVE; COMPUTER; NETWORK; STATE; INDICATE; TIME; REACH

#### Class Codes

International Classification (Main): G06F-017/60, H04L-029/06  
(Additional/Secondary): G06F-017/30, G06F-009/46

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-J05A2; T01-M02A1B; T01-S03...

#### Original Publication Data by Authority

#### Claims:

...should be delayed and a response deferred until an actionable state is reached wherein the request qualifier is arranged to compare the extracted time indicator with the time the requested data was last modified and is arranged to qualify a request as an actionable request if the time indicator indicates a time earlier than the time the requested data was last modified; a state indicator for indicating, for each deferrable request, when the actionable...

45/69,K/19 (Item 19 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0008629054 - Drawing available

WPI ACC NO: 1998-165920/

XRPX ACC No: N1998-132403

Telecommunication control apparatus - has time-stamp monitor which analyses

transmission data and corresponding time-stamp output when transmission data is transmitted

Patent Assignee: NEC CORP (NIDE)

Inventor: KOBUNAYA H; KOFUNAYA H

Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
JP 10032587	A	19980203	JP 1996189478	A	19960718	199815	B
US 6006270	A	19991221	US 1997896959	A	19970718	200006	E

Priority Applications (no., kind, date): JP 1996189478 A 19960718

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 10032587	A	JA	9	10	

#### Alerting Abstract JP A

The apparatus (6-1) has a transmission rate calculating unit (14) which calculates the transmission rate. Transmission data are stored in a buffer. A time-stamp generator (28) produces the time stamp (33) which indicates the time when the transmission data are stored. The time stamp is stored in a transmission FIFO (5) with data. A matching unit matches the transmission data and the time stamp which are prepared for the buffer.

When the transmission data is transmitted, a time stamp monitor (29) analyses the transmission data and the time-stamp output. When there is a big difference in the actual transmission rate and the calculated transmission rate, a rate reduction request signal (30) is generated. The transmission rate calculating unit receives the rate reduction request signal and reduces the calculated transmission rate.

ADVANTAGE - Difference between actual transmission rate and calculated transmission rate can be made small. Enables transmission rate control through feedback of congestion information from circuit.

Title Terms/Index Terms/Additional words: TELECOMMUNICATION; CONTROL; APPARATUS; TIME; STAMP; MONITOR; ANALYSE; TRANSMISSION; DATA; CORRESPOND; OUTPUT; TRANSMIT; FIRST; IN; FIRST; OUT

#### Class Codes

International Classification (Main): H04J-003/24, H04L-012/28

(Additional/Secondary): H04L-012/56, H04L-029/08, H04Q-011/04, H04Q-003/00

File Segment: EPI;

DWPI Class: W01

Manual Codes (EPI/S-X): W01-A06A; W01-A06E1...

#### Original Publication Data by Authority

#### Original Abstracts:

...target transmission rate; a time stamp generator produces a time stamp representative of time for requesting a data transfer from the system memory, and a time stamp monitor compares the time stamp with...

...transmission rate is appropriate or not; if the target transmission rate is too large, the time stamp monitor requests a data processor to change the target transmission rate so that the data cells are transferred to the host at...

45/69,K/21 (Item 21 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0008215011 - Drawing available

WPI ACC NO: 1997-319974/ 199729

XRPX ACC No: N1997-264843

Data item consistency checking for cache database - involves comparing first key stored in association with item of data in cache database with second key stored in association with index entry for respective item of data in master database

Patent Assignee: BRITISH TELECOM PLC (BRTE)

Inventor: JAMES D R

Patent Family (7 patents, 26 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1997021177	A1	19970612	WO 1996GB2977	A	19961202	199729 B
AU 199677046	A	19970627	AU 199677046	A	19961202	199742 E
EP 864129	A1	19980916	EP 1996940048	A	19961202	199841 E
			WO 1996GB2977	A	19961202	
JP 2000501532	W	20000208	WO 1996GB2977	A	19961202	200018 E
			JP 1997521074	A	19961202	
EP 864129	B1	20000816	EP 1996940048	A	19961202	200040 E
			WO 1996GB2977	A	19961202	
DE 69609862	E	20000921	DE 69609862	A	19961202	200055 E
			EP 1996940048	A	19961202	
			WO 1996GB2977	A	19961202	
US 6934717	B1	20050823	WO 1996GB2977	A	19961202	200556 E
			US 199829581	A	19980306	

Priority Applications (no., kind, date): EP 199530862 A 19951201

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1997021177	A1	EN	42	15	
National Designated States,Original: AU CA CN JP KR MX NO NZ SG US					
Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT					
LU MC NL PT SE					
AU 199677046	A	EN			Based on OPI patent WO 1997021177
EP 864129	A1	EN			PCT Application WO 1996GB2977
Based on OPI patent WO 1997021177					
Regional Designated States,Original: DE FR GB IT					
JP 2000501532	W	JA	52		PCT Application WO 1996GB2977
Based on OPI patent WO 1997021177					
EP 864129	B1	EN			PCT Application WO 1996GB2977
Based on OPI patent WO 1997021177					
Regional Designated States,Original: DE FR GB IT					
DE 69609862	E	DE			Application EP 1996940048
PCT Application WO 1996GB2977					
Based on OPI patent EP 864129					
Based on OPI patent WO 1997021177					
US 6934717	B1	EN			PCT Application WO 1996GB2977
Based on OPI patent WO 1997021177					

#### Alerting Abstract WO A1

The method involves checking the consistency of an item of data in a cache database (136) with a respective item of data in a master database (126). It does this by comparing a first key stored in association with the item of data in the cache database with a second key stored in association with an index entry for the respective item of data in the master database.

The master database has several items of master data and an index containing entries corresponding to one or more of the items of master data. The cache database contains a cached copy of one item or more of the master data.

USE/ADVANTAGE - For ensuring cache consistency. Network bandwidth is conserved whenever cached copy is found to be current.

Title Terms/Index Terms/Additional Words: DATA; ITEM; CONSISTENCY; CHECK; CACHE; DATABASE; COMPARE; FIRST; KEY; STORAGE; ASSOCIATE; SECOND; INDEX; ENTER; RESPECTIVE; MASTER

## Class Codes

International Classification (Main): G06F-012/00, G06F-017/00, G06F-017/30

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): T01-J05B4A; T01-J05B4M; W01-A06E2A

199729

## Original Publication Data by Authority

### Original Abstracts:

...fileserver (100) running a master database (126) and clients (130) supporting cache databases (136), inconsistent data write accesses are prevented by using a data locking technique, which locks data during the...

...an up-date transaction requested by one client (130). This prevents access to the same data by another client. Data consistency is checked, prior to the write access, by comparing a...

...the corresponding data entry in the master database. Time stamp equivalence obviates the need to access the master database (126) or to transfer data across the client/server communications network (140)...

...client/server computer environment having a fileserver running a master database and clients supporting cache databases, inconsistent data write accesses are prevented by using a data locking technique, which locks data during the course of an up-date transaction requested by one client. This prevents access to the same data by another client. Data consistency is checked prior to the write access, by comparing a...

...the corresponding data entry in the master database. Time stamp equivalence obviates the need to access the master database or to transfer data across the client/server communications network...

...fileserver (100) running a master database (126) and clients (130) supporting cache databases (136), inconsistent data write accesses are prevented by using a data locking technique, which locks data during the course of an up-date transaction requested by one client (130). This prevents access to the same data by another client. Data consistency is checked, prior to the write access, by comparing a...

...the corresponding data entry in the master database. Time stamp equivalence obviates the need to access the master database (126) or to transfer data across the client/server communications network (140).

45/69,K/24 (Item 24 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0006056377 - Drawing available

WPI ACC NO: 1992-293692/

XRPX ACC No: N1992-224993

Dynamic, finite version scheme for concurrent transaction and query processing - using time-invariant and time-varying data structure to identify dynamically appropriate version for transaction and query access

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: CHEN M; CHEN M-S; WU K; WU K-L; WU P S; YU P S

Patent Family (3 patents, 4 countries)

Patent

Number	Kind	Date	Application Number	Kind	Date	Update
EP 501180	A2	19920902	EP 1992101781	A	19920204	199236 B
US 5287496	A	19940215	US 1991661046	A	19910225	199407 E
EP 501180	A3	19931013	EP 1992101781	A	19920204	199510 E

Priority Applications (no., kind, date): US 1991661046 A 19910225

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 501180	A2	EN	24	10	
Regional Designated States, Original: DE FR GB					
US 5287496	A	EN	19	10	
EP 501180	A3	EN			

#### Alerting Abstract EP A2

The method involves dynamically maintaining a number of finite logical versions of each page in the database, and allowing a physical page copy to represent simultaneously a number of logical versions of a page. The time-invariant information which includes a time-stamp and a transaction identifier is maintained with each physical page copy when it is created.

The time-varying information which represents a system state is also maintained in the memory, and is used to generate a transaction-consistent query snapshot of the database. The time-invariant information is used together with the time-varying information to dynamically identify appropriate version pages of the database for transaction and query accesses to avoid transaction and query interference.

ADVANTAGE - Effective and efficient support of transaction and query, with efficient use of storage.

#### Equivalent Alerting Abstract US A

The dynamic, finite versioning scheme supports concurrent transaction and query processing in which there is no interference between transactions and queries and no quiescence of either transactions or queries for allowing queries to access a more up-to-date database. Only a finite number of logical versions are dynamically maintained on disk for a database page. Acquiring no locks, queries access appropriate query versions, according to their initiation times. Each corresponding query version of all the database pages constitutes a transaction-consistent, but perhaps slightly out-of-date, database snapshot.

Through typical concurrency control mechanisms, different transactions access the most up-to-date versions, and their updates are allowed to be incrementally written into the database before they are committed. To save storage, a physical page copy may simultaneously represent multiple versions. The exact logical version(s) that a physical page copy represents changes dynamically and implicitly.

ADVANTAGE - Effectively and efficiently supports concurrent transaction and query processing with dynamic finite versioning approach that allows queries to access more up-to-date database and makes efficient use of storage. Dynamically maintains fixed finite number of logical versions of data page.

Title Terms/Index Terms/Additional Words: DYNAMIC; FINITE; VERSION; SCHEME; CONCURRENT; TRANSACTION; QUERY; PROCESS; TIME; INVARIANT; VARY; DATA; STRUCTURE; IDENTIFY; APPROPRIATE; ACCESS

#### Class Codes

International Classification (Main): G06F-015/40  
(Additional/Secondary): G06F-009/46

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-F02; T01-F03B; T01-J05B

#### Original Publication Data by Authority

#### Claims:

...consistent query snapshot of said database for accesses by queries without quiescing either transaction or query processing, a query snapshot being identified by a time - stamp and an active transaction list at a time when said snapshot was taken; and using...

...physical page copy and said time-varying information maintained in memory to dynamically identify appropriate version pages of said database for transaction and query accesses to avoid transaction and query interference...

...consistent query snapshot of said database for accesses by queries without quiescing either transaction or query processing, a query snapshot being identified by a time - stamp and an active transaction list at a time when said snapshot was taken; and using...

...physical page copy and said time-varying information maintained in memory to dynamically identify appropriate version pages of said database for transaction and query accesses to avoid transaction and query interference.

?

File 348:EUROPEAN PATENTS 1978-2006/ 200646

(c) 2006 European Patent Office

File 349:PCT FULLTEXT 1979-2006/UB=20061116UT=20061109

(c) 2006 WIPO/Thomson

Set	Items	Description
S1	6481	TIMESTAMP? OR CLOCKSTAMP? OR TIMEMARK? OR TIMECODE? OR TIM-ETAG?
S2	14054	(TIME OR TEMPORAL OR CLOCK)()STAMP???
S3	6619	(TIME OR TEMPORAL)()(MARK? ? OR MARKER? OR MARKED OR MARKI-NG OR CODE? ? OR CODING OR TAG??? OR TAGG??? OR FLAG??? OR FL-AGG???)
S4	16875	(TIME OR TEMPORAL)()(REFERENCE? ? OR LABEL??? OR LABELL??? OR ID OR IDS OR IDENTIFIER? ? OR INDICANT? OR INDICAT??? OR D-ESIGNAT???)
S5	2442	S1:S4(5N)(COMPAR??? OR COMPARISON? OR COMPARAT???? OR MATC-H? OR MISMATCH? OR INTERSECT? OR COINCID? OR CO()INCID? OR NO-NCOINCID?)
S6	267	S1:S4(5N)(JUDG???? OR JUDGE???? OR CONVERG? OR NON()CORRES-POND? OR NONCORRESPOND? OR CONTRAST? OR AGREE? OR DISAGREE?)
S7	606	S1:S4(5N)(ACCORD?NCE? OR DISCORD? OR ACCORD)
S8	2636	S1:S4(3N)(CHECK??? OR EVALUAT? OR SCRUTIN? OR DETERMIN? OR CHEQU? OR DISCRIMINAT? OR VERIFY? OR VERIFIC? OR VERIFIE? ? OR DET? ?)
S9	1256	S1:S4(3N)(ANALYS? OR ANALYZ? OR ANALYT? OR ASSESS? OR SELF-CHECK? OR EXAMIN? OR CONFIRM? OR DIFFERENTIAT? OR REVIEW? OR -IDENTIFY?)
S10	2260	S1:S4(3N)(IDENTIFIE? OR IDENTIFIC? OR APPRAIS? OR ASCERTAI-N? OR INSPECT???? OR MONITOR?)
S11	2129102	REQUEST? OR QUERY? OR QUERIE? OR INQUIR? OR ENQUIR? OR INT-ERROG? OR REQUISITION? OR RETRIEV? OR IR OR ACCESS?? OR ACCES-SING
S12	22801	FETCH???
S13	130079	DATAFILE? OR DATABASE? OR DATABANK? OR DATASET? OR DATASTO-RE? OR DATASYSTEM? OR DATACOLLECTION? OR DATALIBRAR? OR DATAR-EPOSIT?
S14	331	DATADEPOSIT? OR DATAWAREHOUS? OR DATAMART? OR AUDIODATA OR VIDEO DATA OR IMAGEDATA OR TEXTDATA
S15	890	COMPUTERFILE? OR IMAGEFILE? OR SOUNDFILE? OR MEDIAFILE? OR AUDIOFILE? OR FILEGROUP? OR FILESYSTEM? OR VIDEOFILE? OR MUSI-CFILE?
S16	126886	S11:S12(3N)(DATA OR S13:S15)
S17	43287	(COPY? ? OR COPIES OR DUPLICAT? OR REPLICA? OR REPRODUC? OR VERSION? OR CLON???) (3N)(DATA OR S13:S15)
S18	77216	REDUNDAN? OR SUPEREROGAT?
S19	207	S5:S10(25N)S16
S20	8	S19(25N)S17
S21	2	S20 AND AC=US/PR AND AY=(1963:2001)/PR
S22	2	S20 AND AC=US AND AY=1963:2001
S23	2	S20 AND AC=US AND AY=(1963:2001)/PR
S24	5	S20 AND PY=1963:2001
S25	5	S21:S24
S26	147426	S11:S12(5N)(DATA OR S13:S15)
S27	268	S5:S10(25N)S26
S28	10	S27(25N)S17
S29	2	S28 NOT S20
S30	440	S5:S10(5N)S11:S12
S31	9	S30(50N)S17
S32	7	S31 NOT (S20 OR S28)
S33	70170	(CHANG??? OR ANNOTAT? OR VERSION? OR ALTERR? OR ALTERATION? OR ALTER??? OR MODIFIC? OR MODIFY? OR MODIFIE?) (3N)(DATA OR -S13:S15)
S34	78435	(EDIT??? OR UPDAT???? OR UP()DAT???? OR REVIS???? OR CORRE-CT? OR AMEND? OR EMEND? OR RECTIF? OR TEXTEDIT?) (3N)(DATA OR -S13:S15)

S35 826 (VIDEOEDIT? OR REDACT? OR RECONCIL?)(3N)(DATA OR S13:S15)  
 S36 552 S5:S10(7N)S11:S12  
 S37 642 S5:S10(7N)S33:S36  
 S38 552 S36(50N)S37  
 S39 117 S36:S37(50N)S16  
 S40 43 S39 AND AC=US/PR AND AY=(1963:2001)/PR  
 S41 43 S39 AND AC=US AND AY=1963:2001  
 S42 43 S39 AND AC=US AND AY=(1963:2001)/PR  
 S43 60 S39 AND PY=1963:2001  
 S44 61 S40:S43 NOT (S20 OR S28 OR S31)

44/5,K/6 (Item 6 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
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01199384  
 TRANSACTION SYSTEM  
 TRANSAKTIONSSYSTEM  
 SYSTEME DE TRANSACTION  
 PATENT ASSIGNEE:

Unipower Solutions Europe Limited, (3097870), Gate House, 1st floor, 1  
 Farringdon Street, London EC4M 7LH, (GB), (Proprietor designated  
 states: all)

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PATENT (CC, No, Kind, Date): EP 1159696 A2 011205 (Basic)  
 EP 1159696 B1 021113  
 WO 2000048100 000817

APPLICATION (CC, No, Date): EP 2000902812 000214; WO 2000GB487 000214

PRIORITY (CC, No, Date): GB 9903314 990212

DESIGNATED STATES (Pub A): AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE;  
 IT; LI; LU; MC; NL; PT; SE; (Pub B): DE; GB; IT

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-017/60; G06F-017/30; G06F-009/46

CITED PATENTS (EP B): US 5649099 A

CITED REFERENCES (EP B):

WURMAN P. R., WALSH W. E., WELLMAN M. P., O'MALLEY K. A.: "A CONTROL  
 ARCHITECTURE FOR FLEXIBLE INTERNET AUCTION SERVERS" UNIVERSITY OF  
 MICHIGAN, ARTIFICIAL INTELLIGENCE LABORATORY, Online! 6 February 1999  
 (1999-02-06), pages 1-12, XP002145391 Retrieved from the Internet:  
 <URL:http://ai.eecs.umich.edu/people/wew/P apers/AB Architecture2.ps.Z>  
 retrieved on 2000-08-09!

WURMAN P. R., WELLMAN M. P., WALSH W. E.: "THE MICHIGAN INTERNET  
 AUCTIONBOT: A CONFIGURABLE AUCTION SERVER FOR HUMAN AND SOFTWARE  
 AGENTS" PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE ON  
 AUTONOMOUS AGENTS (AGENTS-98), MINNEAPOLIS, MN, USA, Online! May 1998  
 (1998-05), pages 301-308, XP002145392 Retrieved from the Internet:  
 <URL:ftp://ftp.eecs.umich.edu/people/wellm an/agents98wurman.ps.Z>  
 retrieved on 2000-08-09!

"EFFECTIVE LOCKING SCHEME FOR REAL-TIME APPLICATIONS" IBM TECHNICAL  
 DISCLOSURE BULLETIN, US, IBM CORP., NEW YORK, vol. 36, no. 6B, 1 June  
 1993 (1993-06-01), pages 319-320, XP000377398 ISSN: 0018-8689

M. Franklin, Data in your Face: Push Technology in Perspective, ACM Sigmod 98, pp. 516-519

S. Acharya, Balancing Push and Pull for Data Broadcast, ACM Sigmod 97, pp. 183-194

Silvia Hollfelder, Karl Aberer, An Admission Control Framework for  
 Applications with Variable Consumption Rates in Client-Pull  
 Architectures, GMD Report N. 8, ISSN 1435-2702, April 1998;

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):



Application: 001011 A2 International application. (Art. 158(1))  
 Application: 001011 A2 International application entering European phase  
 Application: 011205 A2 Published application without search report  
 Examination: 011205 A2 Date of request for examination: 20010912  
 Examination: 020320 A2 Date of dispatch of the first examination report: 20020204  
 Grant: 021113 B1 Granted patent  
 Assignee: 030319 B1 Transfer of rights to new proprietor: Unipower Solutions Europe Limited (3097871) 33A Ridgmount Road, St Albans Herts AL5 4XS GB  
 Oppn None: 031105 B1 No opposition filed: 20030814  
 Lapse: 040107 B1 Date of lapse of European Patent in a contracting state (Country, date): DE 20030214,

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200246	2420
CLAIMS B	(German)	200246	2425
CLAIMS B	(French)	200246	2787
SPEC B	(English)	200246	8978
Total word count - document A			0
Total word count - document B			16610
Total word count - documents A + B			16610

...SPECIFICATION Qualified for Hold in a resistant timeout, until such time that a valid incoming Change request alters the shared data and modifies a Timestamp within that calling client's view. Once a state of Change...

...the Client Timestamp will be returned by the server.

All Qualification and Re-qualification of requests (HRQs) will involve Timestamp comparison. Specific Applications may also apply additional qualification criteria.

In the present embodying system, therefore, an...

...A Time Zero or Revision Zero Value

An indicator to show whether the HRQ is requesting :

A Read of Data from the master source or

A Write of Data to the master source Either:

An...

...CLAIMS should be delayed and a response deferred until an actionable state is reached wherein the request qualifier is arranged to compare the extracted time indicator with the time the requested data was last modified and is arranged to qualify a request as an actionable request if the time indicator indicates a time earlier than the time the requested data was last modified;  
 - a state indicator for indicating, for each deferrable request, when the actionable...

...action should be delayed and a response deferred until an actionable state is reached by comparing the extracted time indicator with the time the requested data was last modified and qualifying the request as an actionable request if the time indicator indicates a time earlier than the time the requested data was last modified;

- indicating from a state indicator, for each deferrable request, when the actionable...if the time indicator indicates a time later than or equal to the time the requested data was last modified.

19. A method according to claim 12, further comprising storing deferrable requests...

...request store in time indicator order.

20. A method according to claim 19, further comprising retrieving requests from the held request store, comparing the time

indicator of the requests with the time the requested data was last modified, wherein the actionable state is reached if the time indicator indicates a time earlier than the time the requested data was last modified.

21. A method according to claim 20, wherein the step of retrieving...

...delayed and a response deferred until an actionable state is reached and arranged to to compare the extracted time indicator with the time the requested data was last modified in the server data store and to qualify a request as an actionable request if the time indicator indicates a time earlier than the time the requested data was last modified in the server data store;

a state indicator for indicating, for each...action should be delayed and a response deferred until an actionable state is reached by comparing the extracted time indicator with the time the requested data was last modified and wherein the request is an actionable request if the time indicator indicates a time older than the time the requested data was last modified;  
- indicate from a state indicator, for each deferrable request, when the actionable...

...a deferrable request if the time indicator indicates a time younger than the time the requested data was last modified.

46. A computer program product according to claim 39, further comprising storing...

...time indicator order.

47. A computer program product according to claim 46, further comprising periodically retrieving requests from the held request store, comparing the time indicator of the requests with the time the requested data was last modified, wherein the actionable state is reached if the time indicator indicates a time older than the time the requested data was last modified.

48. A system according to any of claims 1 to 11, wherein...

44/5,K/22 (Item 22 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00484621

A database management system  
Datenbankverwaltungssystem  
Systeme de gestion de bases de donnees

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 462751 A2 911227 (Basic)  
EP 462751 A3 930811  
EP 462751 B1 971229

APPLICATION (CC, No, Date): EP 91305318 910612;

PRIORITY (CC, No, Date): JP 90157492 900618

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): G06F-017/30;

CITED REFERENCES (EP A):

PATENT ABSTRACTS OF JAPAN vol. 8, no. 159 (P-289)24 July 1984

IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATION vol. 7, no. 3, April  
1989, NEW YORK US pages 354 - 363 JING-FEI REN ET AL. 'An Analysis of

the Effect on Multiversions on the Performance of Timestamp Algorithms'

ABSTRACT EP 462751 A2

A database management system comprises a plurality of sites having a computer, a database and a clock. The plurality of sites are interconnected by a communication line. The database stores a plurality of data for processing. When a transaction request is generated in a site, the transaction management section of the computer in the site examines which database includes necessary data for executing the transaction. Maximum delay decision section determines maximum delay to send an instruction to the site having the database examined. Locktime decision section determines locktime according to the maximum delay determined and the current time of the clock. Then, the transaction management section sends the locktime as a lock instruction to the site having the database examined through the communication line. A scheduler section receives the lock instruction sent by the transaction management section. A lock activation section activates the scheduler section when the locktime coincides with the current time of the clock. The scheduler section locks the necessary data in the database in response to activation by the lock activation section. (see image in original document)

ABSTRACT WORD COUNT: 182

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 911227 A2 Published application (A1with Search Report ;A2without Search Report)

Examination: 911227 A2 Date of filing of request for examination: 910625

Search Report: 930811 A3 Separate publication of the European or International search report

\*Assignee: 950823 A2 Applicant (transfer of rights) (change): KABUSHIKI KAISHA TOSHIBA (213130) 72, Horikawa-cho, Saiwai-ku Kawasaki-shi, Kanagawa-ken 210, Tokyo (JP) (applicant designated states: DE;FR;GB)

Examination: 960605 A2 Date of despatch of first examination report: 960422

Grant: 971229 B1 Granted patent

Oppn None: 981223 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9712W3	553
CLAIMS B	(German)	9712W3	497
CLAIMS B	(French)	9712W3	689
SPEC B	(English)	9712W3	3420

Total word count - document A 0

Total word count - document B 5159

Total word count - documents A + B 5159

...SPECIFICATION study of the performance of multiversion conservative timestamp algorithms in distributed database systems, in which data is retrieved in an order determined by timestamps associated with each transaction.

It is an object of the present invention to provide a...

44/5,K/36 (Item 13 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00787067 \*\*Image available\*\*

PORTABLE AUTHENTICATION DEVICE AND METHOD USING IRIS PATTERNS

DISPOSITIF PORTABLE ET PROCEDE D'IDENTIFICATION REPOSANT SUR L'UTILISATION

# DE CONFIGURATIONS DE L'IRIS

## Patent Applicant/Assignee:

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## Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200120561 A1 20010322 (WO 0120561)

Application: WO 2000US22358 20000815 (PCT/WO US0022358)

Priority Application: US 99396083 19990914

## Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G07C-009/00

International Patent Class (v7): E05B-049/00; A61B-005/117

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10725

## English Abstract

A compact, handheld imaging apparatus which can be used to capture high-quality iris images for identification of a person. The handheld iris imager is non-invasive and non-contacting and comprises a camera, a cold mirror, a lens, and an illuminator. The imager has sensors and indicators which assist a user in aligning and focusing the device. The imager also automatically captures the image when proper positioning is achieved. A template of the image is then transmitted to a receiver in a vehicle or other asset and compared to a database of previously stored templates of images to identify the person. The imager is part of a security module to protect access to an asset such as a vehicle or residence. The vehicle or residence cannot be unlocked and used unless a user has been identified and authorized by the imager and a controller system.

## French Abstract

L'invention concerne un appareil d'imagerie portable et compact pouvant être utilisé pour saisir des images de haute qualité de l'iris afin d'identifier une personne. L'imageur d'iris portable est non invasif et sans contact et comporte une camera, un miroir froid, une lentille et un illuminateur. L'imageur comporte des détecteurs et des indicateurs qui aident l'utilisateur à aligner et à mettre au point le dispositif. L'imageur, en outre, saisit automatiquement l'image lorsqu'un positionnement convenable est obtenu. Un modèle de l'image est ensuite transmis à un récepteur dans un véhicule ou un autre bien, puis comparé à une base de données de modèles d'images préalablement stockés, afin d'identifier la personne. L'imageur fait partie d'un module de sécurité destiné à protéger l'accès à un bien, tel qu'un véhicule ou une résidence. Le véhicule ou la résidence ne peuvent être déverrouillés et/ou utilisés si l'utilisateur n'a pas été préalablement identifié et autorisé par l'imageur et un système de commande.

Legal Status (Type, Date, Text)

Publication 20010322 A1 with international search report.

Examination 20010712 Request for preliminary examination prior to end of  
19th month from priority date

Patent and Priority Information (Country, Number, Date):

Patent: ... 20010322

Fulltext Availability:

Detailed Description

Publication Year: 2001

Detailed Description

... iris data and time data are hashed and encrypted to prevent tampering,  
and 15 access is granted only if the received time stamp matches  
that of the controller. A second approach could use a handshaking  
technique in which an imager desiring to send data would first request  
transmission of a public key from the controller system. An exemplary  
handshaking and encryption technique...

44/5,K/45 (Item 22 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00734784 \*\*Image available\*\*

TRANSACTION SYSTEM

SYSTEME DE TRANSACTION

Patent Applicant/Assignee:

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designated states except: US)

Patent Applicant/Inventor:

HOUBART Hanafi, 28 Grove Road, Rickmansworth, Herts. WD3 2ED, GB, GB  
(Residence), GB (Nationality), (Designated only for: US)

Legal Representative:

LOVELESS Ian Mark, Reddie & Grose, 16 Theobalds Road, London WC1X 8PL, GB

Patent and Priority Information (Country, Number, Date):

Patent: WO 200048100 A2 20000817 (WO 0048100)

Application: WO 2000GB487 20000214 (PCT/WO GB0000487)

Priority Application: GB 993314 19990212

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB  
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA  
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA  
UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-017/60

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12610

English Abstract

A system for processing requests in a request-response client-server  
computer network is provided including a request qualifier for qualifying  
each received request as either an actionable request for which action  
should be taken and a response issued, or a deferrable request for which

action should be delayed and a response deferred until an actionable -state is reached. This allows a decision to be taken at the server as to whether a requesting client requires data immediately, or whether a response at a later time, such as notifying a change in data, is appropriate. When appropriate, responses are provided allowing clients to keep an up to date view of shared data. The system is particularly applicable to a transaction system, and in particular to a transaction system operating across the Internet or a network running Internet Protocol. The invention overcomes problems with push technology and does not require modifications to HTTP protocol.

#### French Abstract

Système servant à traiter des demandes dans un réseau informatique reliant client et serveur et nécessitant une demande et une réponse. Ce système comprend un qualificatif de demande servant à qualifier chaque demande reçue en tant que demande pour laquelle on doit prendre une mesure et émettre une réponse ou demande pour laquelle on doit retarder la prise de mesure, ainsi que la réponse jusqu'à ce qu'on ait atteint un état d'action. Ceci permet de décider au niveau du serveur si un client demandeur nécessite des données immédiatement ou si une réponse ultérieure, telle qu'une indication de modification de données, est appropriée. Si c'est le cas, on donne des réponses qui permettent aux clients de conserver un aspect mis à jour des données partagées. Ce système est mis spécialement en application en tant que système de transaction et, plus spécialement, en tant que système de transaction opérationnel sur Internet ou sur un réseau utilisant le protocole Internet. L'invention permet de résoudre les problèmes posés par la technologie du pousser et il est inutile de la modifier en protocole HTTP.

#### Legal Status (Type, Date, Text)

Publication 20000817 A2 without international search report and to be republished upon receipt of that report.  
Examination 20001116 Request for preliminary examination prior to end of 19th month from priority date  
Search Rpt 20001228 Late publication of international search report

#### Patent and Priority Information (Country, Number, Date):

Patent: ... 20000817

#### Fulltext Availability:

Detailed Description  
Claims

Publication Year: 2000

#### Detailed Description

... Qualified for Hold in a resistant timeout, until such time that a valid incoming Change request alters the shared data and modifies a Timestamp within that calling client's view. Once a state of Change...

...the Client Timestamp will be returned by the server.

All Qualification and Re-qualification of requests (HRQs) will involve Timestamp comparison. Specific Applications may also apply additional qualification criteria.

In the present embodying system, therefore, an...

...A Time Zero or Revision Zero Value  
An indicator to show whether the HRQ is requesting .

A Read of Data from the master source or  
A Write of Data to the master source  
Either.

An...

Claim

... is a time stamp.

8 A system according to claim 6 or 7, wherein the request qualifier is arranged to compare the extracted time indicator with the time the requested data was last modified.

9 A system according to claim 8, wherein the request qualifier is arranged to qualify...

...an

actionable request if the time indicator indicates a time earlier than the time the requested data was last modified. - 38

10 A system according to claim 8 or 9, wherein the...a time stamp.

22 A method according to claim 20 or 21 wherein, for a request to read data, the request qualifier compares the extracted time indicator with the time the requested data was last modified.

23 A method according to claim 22, wherein the request qualifier qualifies the request as an actionable request if the time indicator indicates a time earlier than the time the requested data was last modified.

24 A method according to claim 22 or 23 wherein the request...

...if the time indicator indicates a time later than or equal to the time the requested data was last modified. - 41

25 A method according to any of claims 20 to 24...

...store in time indicator order.

26. A method according to claim 25, further comprising retrieving requests from the held request store, comparing the time indicator of the requests with the time the requested data was last modified, wherein the actionable state is reached if the time indicator indicates a time earlier than the time the requested data was last modified.

27 A method according to claim 26, wherein the step of retrieving...

...is a time stamp.

37 A network according to claim 35 or 36, wherein the request qualifier is arranged to compare the extracted time indicator with the time the requested data was last modified in the server data store.

38 A network according to claim 37, wherein the request qualifier is arranged to...

...an

actionable request if the time indicator indicates a

time earlier than the time the requested data was last modified in the server data store.

39 A network according to claim 37...47

55 A computer program product according to claim 53 or 54 wherein, for a request to read data, the request qualifier compares the extracted time indicator with the time the requested data was last modified.

56 A computer program product according to claim 55, wherein the request qualifier qualifies the...

...an actionable request if the time indicator indicates a time older than the time the requested data was last modified.

I 0

57 A computer program product according to claim 55 or...

...a deferrable request if the time indicator indicates a time younger than the time the requested data was last modified.

S8. A computer program product according to any of claims 53 to...

...time indicator order.

59 A computer program product according to claim 58, further comprising periodically retrieving requests from the held request store, comparing the time indicator of the requests with the time the requested data was last modified, wherein the actionable state is reached if the time indicator indicates a time older than the time the requested data was last modified.

60 A system according to any of claims 1 to 14, wherein...

44/5,K/47 (Item 24 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00474267 \*\*Image available\*\*

DYNAMICALLY GENERATED DOCUMENT CACHE SYSTEM

SYSTEME D'ANTEMEMOIRE DE DOCUMENTS GENERES DE MANIERE DYNAMIQUE

Patent Applicant/Assignee:

ICON CMT CORP,

Inventor(s):

HOLT George Alexander III,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9905619 A1 19990204

Application: WO 98US14678 19980715 (PCT/WO US9814678)

Priority Application: US 97905794 19970728

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU  
IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL  
PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW  
SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR  
IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class (v7): G06F-017/30

Publication Language: English

Fulltext Availability:



Detailed Description  
Claims  
Fulltext Word Count: 4926

English Abstract

A system for dynamically generating documents utilizes document programs (18) and data at a content providing server (14) to generate those documents. When an intermediate server (12) requests a dynamically generated document from a content providing server (14), the content providing server (14) transmits the instructions or programs to create the document along with data utilized by the program or instructions in creating the document. The intermediate server (12) then retains or caches the document programs as well as the data. When the intermediate server (12) next requires the document, that document is generated at the intermediate server (12) rather than requiring that it be obtained from the content providing server (14). The content providing server (14) retains a register of the intermediate servers (12) which have received document programs or data. If there are changes to the document programs or data, such changes are broadcast to the intermediate servers which had cached that information.

French Abstract

L'invention concerne un systeme de generation dynamique de documents faisant appel a des programmes (18) et donnees de documents dans un serveur de fourniture de donnees (14) pour generer les documents. Lorsqu'un serveur intermediaire (12) demande un document genere de maniere dynamique a un serveur de fourniture de donnees (14), le serveur de fourniture de donnees (14) transmet les instructions ou programmes de maniere a creer le document en meme temps que des donnees utilisees par le programme ou les instructions pour creer le document. Le serveur intermediaire (12) garde alors ou place dans une antememoire les programmes de documents ainsi que les donnees. Lorsque le serveur intermediaire (12) fait une nouvelle demande du document, ce document est genere dans le serveur intermediaire (12) au lieu d'etre demande au serveur de fourniture de donnees (14). Le serveur de fourniture de donnees (14) conserve un registre de serveurs intermediaires (12) ayant recu des programmes ou donnees de documents. Si des modifications interviennent dans les programmes ou donnees de documents, ces modifications sont diffusees vers les serveurs intermediaires qui avaient garde ces informations dans une antememoire.

Patent and Priority Information (Country, Number, Date):

Patent: ... 19990204

Fulltext Availability:

Detailed Description

Publication Year: 1999

Detailed Description

... may be necessary or the intermediate server 12 may simply request information regarding when the data was last changed and compare that with a time stamp on the data file located at the intermediate server 12.

If at block 56 the...

...or, at block 58, the data are not current, control passes to block 60 to retrieve the data or retrieve a current version of the data. Data may be retrieved at block 60 from content providing server 14 or from an ordinary server 16. After...

?

? t32/5,k/6

32/5,k/6 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01182405 \*\*Image available\*\*

READ, WRITE, AND RECOVERY OPERATIONS FOR REPLICATED DATA  
OPERATIONS DE LECTURE, D'ECRITURE ET DE RECUPERATIONS DE DONNEES REPLIQUEES  
Patent Applicant/Assignee:

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VEITCH Alistair, 1032 Burgoyne Street, Mountain View, CA 94043, US, US  
(Residence), NZ (Nationality), (Designated only for: US)

Legal Representative:

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Collins, CO 80527, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2004104866 A2-A3 20041202 (WO 04104866)

Application: WO 2004US15191 20040513 (PCT/WO US04015191)

Priority Application: US 2003440548 20030516

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06F-011/18

International Patent Class (v7): G06F-011/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 13795

English Abstract

Read, write and recovery operations for replicated data are provided. In one aspect, a system for redundant storage of data included a plurality of storage devices (102) and a communication medium (104) for interconnecting the storage devices (102). At least two of the storage devices (102) are designated devices (102) for storing a block of data. Each designated device (102) has a version of the data and a first timestamp that is indicative of when the version of data was last updated and a second timestamp that is indicative of any pending update to the block of data. The read, write and recovery operations are performed to the data using the first and second timestamps to coordinate the operations among the designated devices (102).

French Abstract

L'invention concerne des operations de lecture, d'ecriture et de recuperation de donnees repliquees. Dans un aspect, un systeme de stockage redondant de donnees comprend une pluralite de dispositifs de stockage (102) et un support de communication (104) afin d'interconnecter les dispositifs de stockage (102). Au moins deux des dispositifs de stockage (102) sont des dispositifs designes (102) pour stocker un bloc de donnees. Chaque dispositif designe (102) possede une version des donnees et une premiere estampille qui indique la derniere mise a jour de la version de donnees et une deuxieme estampille indiquant n'importe quelle mise a jour a venir du bloc de donnees. Les operations de lecture, d'ecriture et de recuperation sont effectuees sur les donnees au moyen de la premiere et de la deuxieme estampille afin de coordonner les operations entre les dispositifs designes (102).

Legal Status (Type, Date, Text)

Publication 20041202 A2 without international search report and to be republished upon receipt of that report.  
Search Rpt 20051006 Late publication of international search report  
Republication 20051006 A3 with international search report.  
Republication 20051006 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Fulltext Availability:

Detailed Description  
Claims

Detailed Description

... storage devices wherein the message includes a timestamp and wherein each storage device has a version of the data and a timestamp that indicates when the version of data was last updated. The timestamp from the request is compared to the timestamp at each storage device and, if the comparison indicates the device has the same version of the data block an affirmative response is returned.

When at least a majority of the storage devices...

...is issued to each of a plurality of storage devices. Each storage device has a version of the data and a timestamp that indicates when the version of data was last updated. The timestamp from the request is compared to the timestamp at each storage device and, if the comparison indicates the device has an earlier version of the data block, an affirmative response is returned. When at least a majority of the storage devices...

Claim

... wherein the message includes a timestamp and wherein each storage device (102) has a version of the data and a timestamp that indicates when the version of data was last updated; comparing the timestamp from the request to the timestamp at each storage device (102) and, if the comparison indicates the device has the same version of the data block returning an affirmative response; and  
1. When at least a majority of...

...2) wherein the message includes a timestamp and wherein each storage device (102) has a version of the data and a timestamp that indicates when the version of data was last updated; comparing the timestamp from the request to the timestamp at each storage device (102) and, if the comparison indicates the...

...to claim 4 wherein if the comparison indicates that the device (102) has a later version of the data block, the device (102) does not return an affirmative response.

File 696:DIALOG Telecom. Newsletters 1995-2006/Nov 18  
(c) 2006 Dialog  
File 9:Business & Industry(R) Jul/1994-2006/Nov 17  
(c) 2006 The Gale Group  
File 15:ABI/Inform(R) 1971-2006/Nov 20  
(c) 2006 ProQuest Info&Learning  
File 484:Periodical Abs Plustext 1986-2006/Nov w2  
(c) 2006 ProQuest  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
File 613:PR Newswire 1999-2006/Nov 20  
(c) 2006 PR Newswire Association Inc  
File 635:Business Dateline(R) 1985-2006/Nov 18  
(c) 2006 ProQuest Info&Learning  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 610:Business Wire 1999-2006/Nov 20  
(c) 2006 Business Wire.  
File 369:New Scientist 1994-2006/Sep w2  
(c) 2006 Reed Business Information Ltd.  
File 370:Science 1996-1999/Jul w3  
(c) 1999 AAAS  
File 16:Gale Group PROMT(R) 1990-2006/Nov 20  
(c) 2006 The Gale Group  
File 47:Gale Group Magazine DB(TM) 1959-2006/Nov 20  
(c) 2006 The Gale group  
File 148:Gale Group Trade & Industry DB 1976-2006/Nov 20  
(c)2006 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 275:Gale Group Computer DB(TM) 1983-2006/Nov 20  
(c) 2006 The Gale Group  
File 621:Gale Group New Prod.Annou.(R) 1985-2006/Nov 17  
(c) 2006 The Gale Group  
File 624:McGraw-Hill Publications 1985-2006/Nov 17  
(c) 2006 McGraw-Hill Co. Inc  
File 649:Gale Group Newswire ASAP(TM) 2006/Nov 06  
(c) 2006 The Gale Group  
File 636:Gale Group Newsletter DB(TM) 1987-2006/Nov 20  
(c) 2006 The Gale Group  
File 647:CMP Computer Fulltext 1988-2006/Jan w2  
(c) 2006 CMP Media, LLC  
File 674:Computer News Fulltext 1989-2006/Sep w1  
(c) 2006 IDG Communications

Set	Items	Description
S1	6044	TIMESTAMP? OR CLOCKSTAMP? OR TIMEMARK? OR TIMECODE? OR TIM-ETAG?
S2	17568	(TIME OR TEMPORAL OR CLOCK)()STAMP???
S3	13708	(TIME OR TEMPORAL)()(MARK? ? OR MARKER? OR MARKED OR MARKING OR CODE? ? OR CODING OR TAG???
S4	10880	(TIME OR TEMPORAL)()(REFERENCE? ? OR LABEL???
S5	563	S1:S4(5N)(COMPAR???
S6	198	S1:S4(5N)(JUDG???? OR JUDGE???? OR CONVERG?
S7	37	S1:S4(5N)(ACCORD?NCE? OR DISCORD? OR ACCORD)
S8	671	S1:S4(3N)(CHECK???

S9	1106	S1:S4(3N)(ANALYS? OR ANALYZ? OR ANALYT? OR ASSESS? OR SELF-CHECK? OR EXAMIN? OR CONFIRM? OR DIFFERENTIAT? OR REVIEW? OR IDENTIFY?)
S10	631	S1:S4(3N)(IDENTIFIE? OR IDENTIFIC? OR APPRAIS? OR ASCERTAIN? OR INSPECT???? OR MONITOR?)
S11	12779807	REQUEST? OR QUERY? OR QUERIE? OR INQUIR? OR ENQUIR? OR INTERROG? OR REQUISITION? OR RETRIEV? OR IR OR ACCESS?? OR ACCESSING
S12	102009	FETCH???
S13	2790913	DATAFILE? OR DATABASE? OR DATABANK? OR DATASET? OR DATASTORE? OR DATASYSTEM? OR DATACOLLECTION? OR DATALIBRAR? OR DATAREPOSIT?
S14	7487	DATADEPOSIT? OR DATAWAREHOUS? OR DATAMART? OR AUDIODATA OR VIDEODATA OR IMAGEDATA OR TEXTDATA
S15	4575	COMPUTERFILE? OR IMAGEFILE? OR SOUNDFILE? OR MEDIAFILE? OR AUDIOFILE? OR FILEGROUP? OR FILESYSTEM? OR VIDEOFILE? OR MUSICFILE?
S16	889485	S11:S12(3N)(DATA OR S13:S15)
S17	144776	(COPY? ? OR COPIES OR DUPLICAT? OR REPLICA? OR REPRODUC? OR VERSION? OR CLON???) (3N)(DATA OR S13:S15)
S18	394229	REDUNDAN? OR SUPEREROGAT?
S19	225656	(CHANG??? OR ANNOTAT? OR VERSION? OR ALTERR? OR ALTERATION? OR ALTER??? OR MODIFIC? OR MODIFY? OR MODIFIE?) (3N)(DATA OR S13:S15)
S20	267804	(EDIT??? OR UPDAT???? OR UP()DAT???? OR REVIS???? OR CORRECT? OR AMEND? OR EMEND? OR RECTIF? OR TEXTEDIT?) (3N)(DATA OR S13:S15)
S21	39	S5:S10(S)S16
S22	0	S21(S)S17
S23	1111714	S11:S12(5N)(DATA OR S13:S15)
S24	57	S5:S10(S)S23
S25	0	S24(S)S17
S26	67	S5:S10(5N)S11:S12
S27	0	S26(S)S17
S28	87	S5:S10(7N)S11:S12
S29	16	S5:S10(7N)S19:S20
S30	24	S28:S29(S)S23
S31	8	S30/2002:2006
S32	16	S30 NOT S31
S33	7	RD (unique items)

? t33/k/all

33/K/1 (Item 1 from file: 610)  
DIALOG(R)File 610:(c) 2006 Business Wire. All rts. reserv.

...time multi-tiered payer authentication technology; Tele-Secure(TM)  
call center multi-tiered authentication solutions; Access -Secure(TM)  
Real-Time  
ID verification , protecting access to secure systems and databases  
for  
government and the financial services industry; ID-Secure(TM), the identity  
verification and access...

33/K/2 (Item 2 from file: 610)  
DIALOG(R)File 610:(c) 2006 Business Wire. All rts. reserv.

...time multi-tiered payer authentication technology; Tele-Secure(TM)  
call center multi-tiered authentication solutions; Access -Secure(TM)  
Real-Time  
ID verification , protecting access to secure systems and databases  
for  
government and the financial services industry; ID-Secure(TM), the identity  
verification and access...

33/K/3 (Item 1 from file: 16)  
DIALOG(R)File 16:(c) 2006 The Gale Group. All rts. reserv.

... time multi-tiered payer authentication technology; Tele-Secure(TM)  
call center multi-tiered authentication solutions; Access -Secure(TM)  
Real-Time ID verification , protecting access to secure systems and  
databases for government and the financial services industry;  
ID-Secure(TM), the identity verification and access...

33/K/4 (Item 2 from file: 16)  
DIALOG(R)File 16:(c) 2006 The Gale Group. All rts. reserv.

The decade-old market for query , reporting and data analysis  
software -- at one time labelled front-end tools and now collectively  
badged as business intelligence' (BI) -- has been powering ahead...

...tech sectors, but a Web interface is proving the most cost effective way  
of placing data query and analysis applications onto the desks of  
armies of new users, most of whom are...

33/K/5 (Item 1 from file: 148)  
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.

... deliver it to the host. As soon as possible after the data transfer  
starts, the time stamp of the matching entry is updated, and the  
time stamp for the next request preloads into the comparand.  
If the routine doesn't find the data in the cache...the search for a  
time stamp to purge. Then, the routine loads the oldest known time stamp  
, which triggers a compare . A data read attempts to fetch the  
cache-page address associated with that time stamp and unlocks the daisy  
chain. If...

33/K/6 (Item 2 from file: 148)  
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.

...ABSTRACT: object hierarchy to get more detailed information about an

object. New features include a date/ time stamper , spell checker , automatic database backup and phone book access from other applications. Also included are 12 user-definable fields for an organization object and...

33/K/7 (Item 3 from file: 148)  
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.

... must have elapsed before the document will be included in a reindexing. The DOS date/ time stamp is used to determine the base time.  
Configuration of the ISYS Query Environment  
Configuration of the database index is the first step in the configuration process. You can also tailor dozens of...

File 2:INSPEC 1898-2006/Nov W2  
(c) 2006 Institution of Electrical Engineers  
File 6:NTIS 1964-2006/Nov W1  
(c) 2006 NTIS, Intl Cpyrght All Rights Res  
File 8:Ei Compendex(R) 1884-2006/Nov W1  
(c) 2006 Elsevier Eng. Info. Inc.  
File 34:SciSearch(R) Cited Ref Sci 1990-2006/Nov W2  
(c) 2006 The Thomson Corp  
File 35:Dissertation Abs Online 1861-2006/Oct  
(c) 2006 ProQuest Info&Learning  
File 65:Inside Conferences 1993-2006/Nov 20  
(c) 2006 BLDSC all rts. reserv.  
File 94:JICST-EPlus 1985-2006/Aug W1  
(c)2006 Japan Science and Tech Corp(JST)  
File 95:TEME-Technology & Management 1989-2006/Nov W2  
(c) 2006 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2006/Sep  
(c) 2006 The HW Wilson Co.  
File 144:Pascal 1973-2006/Oct W5  
(c) 2006 INIST/CNRS  
File 256:TecInfoSource 82-2006/May  
(c) 2006 Info.Sources Inc  
File 266:FEDRIP 2006/Aug  
Comp & dist by NTIS, Intl Copyright All Rights Res  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 2006 The Thomson Corp  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group

Set	Items	Description
S1	3071	TIMESTAMP? OR CLOCKSTAMP? OR TIMEMARK? OR TIMECODE? OR TIM-ETAG?
S2	3401	(TIME OR TEMPORAL OR CLOCK)()STAMP???
S3	15509	(TIME OR TEMPORAL)()(MARK? ? OR MARKER? OR MARKED OR MARKING OR CODE? ? OR CODING OR TAG??? OR TAGG??? OR FLAG??? OR FLAGG???)
S4	7718	(TIME OR TEMPORAL)()(REFERENCE? ? OR LABEL??? OR LABELL??? OR ID OR IDS OR IDENTIFIER? ? OR INDICANT? OR INDICAT??? OR DESIGNAT???)
S5	606	S1:S4(5N)(COMPAR??? OR COMPARISON? OR COMPARAT???? OR MATCH? OR MISMATCH? OR INTERSECT? OR COINCID? OR CO()INCID? OR NONCOINCID?)
S6	106	S1:S4(5N)(JUDG???? OR JUDGE???? OR CONVERG? OR NON()CORRESPOND? OR NONCORRESPOND? OR CONTRAST? OR AGREE? OR DISAGREE?)
S7	10	S1:S4(5N)(ACCORD?NCE? OR DISCORD? OR ACCORD)
S8	677	S1:S4(3N)(CHECK??? OR EVALUAT? OR SCRUTIN? OR DETERMIN? OR CHEQU? OR DISCRIMINAT? OR VERIFY? OR VERIFIC? OR VERIFIE? ? OR DET? ?)
S9	723	S1:S4(3N)(ANALYS? OR ANALYZ? OR ANALYT? OR ASSESS? OR SELF-CHECK? OR EXAMIN? OR CONFIRM? OR DIFFERENTIAT? OR REVIEW? OR IDENTIFY?)
S10	243	S1:S4(3N)(IDENTIFIE? OR IDENTIFIC? OR APPRAIS? OR ASCERTAIN? OR INSPECT???? OR MONITOR?)
S11	2102637	REQUEST? OR QUERY? OR QUERIE? OR INQUIR? OR ENQUIR? OR INTERROG? OR REQUISITION? OR RETRIEV? OR IR OR ACCESS?? OR ACCESSING
S12	10403	FETCH???
S13	733740	DATAFILE? OR DATABASE? OR DATABANK? OR DATASET? OR DATASTORE? OR DATASYSTEM? OR DATACOLLECTION? OR DATALIBRAR? OR DATAREPOSIT?
S14	391	DATADEPOSIT? OR DATAWAREHOUS? OR DATAMART? OR AUDIODATA OR VIDEODATA OR IMAGEDATA OR TEXTDATA
S15	724	COMPUTERFILE? OR IMAGEFILE? OR SOUNDFILE? OR MEDIAFILE? OR AUDIOFILE? OR FILEGROUP? OR FILESYSTEM? OR VIDEOFILE? OR MUSICFILE?



S16	177576	S11:S12(3N)(DATA OR S13:S15)
S17	56792	(COPY? ? OR COPIES OR DUPLICAT? OR REPLICA? OR REPRODUC? OR VERSION? OR CLON???) (3N)(DATA OR S13:S15)
S18	151782	REDUNDAN? OR SUPEREROGAT?
S19	13	S5:S10(25N)S16
S20	0	S19(25N)S17
S21	0	S20 AND AC=US/PR AND AY=(1963:2001)/PR
S22	0	S20 AND AC=US AND AY=1963:2001
S23	0	S20 AND AC=US AND AY=(1963:2001)/PR
S24	0	S20 AND PY=1963:2001
S25	0	S21:S24
S26	221813	S11:S12(5N)(DATA OR S13:S15)
S27	13	S5:S10(25N)S26
S28	0	S27(25N)S17
S29	0	S28 NOT S20
S30	38	S5:S10(5N)S11:S12
S31	0	S30(50N)S17
S32	0	S31 NOT (S20 OR S28)
S33	76445	(CHANG??? OR ANNOTAT? OR VERSION? OR ALTERR? OR ALTERATION? OR ALTER??? OR MODIFIC? OR MODIFY? OR MODIFIE?) (3N)(DATA OR - S13:S15)
S34	87832	(EDIT??? OR UPDAT???? OR UP()DAT???? OR REVIS???? OR CORRE- CT? OR AMEND? OR EMEND? OR RECTIF? OR TEXTEDIT?) (3N)(DATA OR - S13:S15)
S35	3264	(VIDEOEDIT? OR REDACT? OR RECONCIL?) (3N)(DATA OR S13:S15)
S36	46	S5:S10(7N)S11:S12
S37	49	S5:S10(7N)S33:S36
S38	46	S36(50N)S37
S39	6	S36:S37(50N)S16
S40	0	S39 AND AC=US/PR AND AY=(1963:2001)/PR
S41	0	S39 AND AC=US AND AY=1963:2001
S42	0	S39 AND AC=US AND AY=(1963:2001)/PR
S43	4	S39 AND PY=1963:2001
S44	4	S40:S43 NOT (S20 OR S28 OR S31)
S45	0	S19 AND S17
S46	0	S27 AND S17
S47	0	S30 AND S17
S48	9	S36:S37 AND S16
S49	5	S48/2002:2006
S50	4	S48 NOT S49
S51	4	RD (unique items)
?		

? t51/k/all

51/K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:(c) 2006 Institution of Electrical Engineers. All rts.  
reserv.

...Abstract: reading by radiology residents with consecutive on-site report verification by a staff member. To evaluate time - stamps , we analysed the RIS database with a database query tool. The results showed that the median time from the end of a procedure to...

...Identifiers: database query tool

51/K/2 (Item 2 from file: 2)  
DIALOG(R)File 2:(c) 2006 Institution of Electrical Engineers. All rts.  
reserv.

...Abstract: framework for identifying classes in object-oriented medical software construction is provided. The importance of time - stamped data for queries assessing the course of disease is stressed.

51/K/3 (Item 1 from file: 35)  
DIALOG(R)File 35:(c) 2006 ProQuest Info&Learning. All rts. reserv.

...corresponding prototype implementations. The first approach timestamps data by extending the data structures with special timestamp attributes, but, in contrast to existing proposals, uses a generalised query , data definition and data manipulation language. The second approach fully generalises a non-temporal object data model into a...

...while temporal data structures and operations can be accommodated in this way, support for generalised data models and query languages is restricted.

These approaches show that a generalised temporal data model is better suited...

51/K/4 (Item 1 from file: 144)  
DIALOG(R)File 144:(c) 2006 INIST/CNRS. All rts. reserv.

English Descriptors: Remote password authentication; Cross product; Log-in request ; Time stamp ; Reviews ; Smart cards; Data privacy; Cryptography; Information retrieval systems; Data processing; Security of data

File 347: JAPIO Dec 1976-2006/Jul(Updated 061116)  
 (c) 2006 JPO & JAPIO  
 File 348: EUROPEAN PATENTS 1978-2006/ 200646  
 (c) 2006 European Patent Office  
 File 349: PCT FULLTEXT 1979-2006/UB=20061116UT=20061109  
 (c) 2006 WIPO/Thomson  
 File 350: Derwent WPIX 1963-2006/UD=200674  
 (c) 2006 The Thomson Corporation

Set	Items	Description
S1	14	AU='ARONOFF E':AU='ARONOFF E M'
S2	5	AU='ARONOFF EYAL':AU='ARONOFF EYAL M'
S3	3	AU='KALDERON E':AU='KALDERON EYAL'
S4	2	AU='ROMINE W J'
S5	2	AU='ROMINE WILLIAM J'
S6	2	S1:S2 AND S3 AND S4:S5

>>>Format 69 is not valid in file 348

6/69/1 (Item 1 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2006 The Thomson Corporation. All rts. reserv.

0014443534 - Drawing available  
 WPI ACC NO: 2004-634215/  
 Related WPI Acc No: 2003-634746; 2004-602984  
 XRPX Acc No: N2004-501373

Structural query language statement altering method for use in database management system, involves determining whether statement is to be altered and forwarding altered statement to be acted upon by system

Patent Assignee: ARONOFF E (ARON-I); KALDERON E (KALD-I); ROMINE W J (ROMI-I)

Inventor: ARONOFF E ; KALDERON E ; ROMINE W J

Patent Family (1 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 20040162836	A1	20040819	US 2001266908	P	20010206	200461 B
			US 200272317	A	20020206	
			US 2003662039	A	20030911	

Priority Applications (no., kind, date): US 200272317 A 20020206; US 2001266908 P 20010206; US 2003662039 A 20030911

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20040162836	A1	EN	25	12	Related to Provisional US 2001266908 C-I-P of application US 200272317

#### Alerting Abstract US A1

NOVELTY - The method involves receiving data packets from a client application. The data packets are assembled into a structural query language (SQL) statement and determination is made whether to alter the SQL statement. The statement to be acted upon by a database management system is forwarded when the statement is not altered and if not the altered statement is forwarded.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.a data processing system for modifying statements to be executed on a database management system
- 2.a method of monitoring data sent to a client application in a database cluster environment.

USE - Used in a database management system for altering a structural query language (SQL) statement from a client application.

ADVANTAGE - The method allows moving connections between the database

management systems, and thereby facilitates providing a database cluster that offers high availability to its connecting clients, including non-fault tolerant clients.

DESCRIPTION OF DRAWINGS - DESCRIPTION OF DRAWING - The drawing shows a block diagram of a data processing system including a database cluster.

- 120 Routing device
- 125 Primary host
- 130 Data files
- 135 Secondary host
- 140 Primary connection manager
- 145 Primary database management system

Title Terms/Index Terms/Additional words: STRUCTURE; QUERY; LANGUAGE; STATEMENT; ALTER; METHOD; DATABASE; MANAGEMENT; SYSTEM; DETERMINE; FORWARDING; ACT

#### Class Codes

International Classification (Main): G06F-007/00

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-F05A; T01-J05B3

6/69/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0014413002 - Drawing available

WPI ACC NO: 2004-602984/

Related WPI Acc No: 2003-634746; 2004-634215

XRPX Acc No: N2004-476944

Database cluster provision method in data processing system, involves comparing timestamp of request and replication data, based on which one of request/the data is purged and other is forwarded to secondary database management system

Patent Assignee: ARONOFF E (ARON-I); KALDERON E (KALD-I); ROMINE W J (ROMI-I)

Inventor: ARONOFF E ; KALDERON E ; ROMINE W J

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20040148397	A1	20040729	US 2001266908	P	20010206	200458 B
			US 200272317	A	20020206	
			US 2003661412	A	20030911	

Priority Applications (no., kind, date): US 200272317 A 20020206; US 2001266908 P 20010206; US 2003661412 A 20030911

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20040148397	A1	EN	25	12	Related to Provisional US 2001266908 C-I-P of application US 200272317

#### Alerting Abstract US A1

NOVELTY - Each data request for accessing data of a data file, from client application, is forwarded to a primary database management system (DBMS), along with associated timestamp. Replication data indicating changes in data file, is acquired along with timestamp. The timestamp of replication data and requests are compared, based on which one of request and replication data are purged, and other is forwarded to secondary DBMS.

DESCRIPTION - An INDEPENDENT CLAIM is also included for method of performing replication in database cluster having client connection failover.

USE - For providing highly-available database clusters in data processing system.

ADVANTAGE - Provides database cluster that maintain connection with potentially geographically remote client application, even in the event of failure or unavailability of primary DBMS.

DESCRIPTION OF DRAWINGS - DESCRIPTION OF DRAWING - The figure shows the block diagram of the data processing system comprising database clusters.

Title Terms/Index Terms/Additional words: DATABASE; CLUSTER; PROVISION; METHOD; DATA; PROCESS; SYSTEM; COMPARE; REQUEST; REPLICA; BASED; ONE; PURGE; FORWARDING; SECONDARY; MANAGEMENT

**Class Codes**

International Classification (Main): G06F-015/16

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-F05E; T01-J05B4A; T01-J05B4M

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